

SEQUENCE LISTING

<110> Whitehouse, Martha Jo

<120> Methods and Compositions for the
Treatment and Prevention of Erectile Dysfunction

<130> 1671.003 (35784/208786)

<150> 60/188,480

<151> 2000-03-10

<150> 60/203,415

<151> 2000-05-11

<160> 9

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 441

<212> DNA

<213> Bos taurus

<220>

<221> CDS

<222> (1)...(441)

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Pro Ala Leu Pro Glu Asp Gly Gly Ser Gly Ala Phe Pro Pro Gly His	
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ttc aaa gat cca aaa cga cta tat tgt aaa aac ggg ggg ttc ttc cta	96
Phe Lys Asp Pro Lys Arg Leu Tyr Cys Lys Asn Gly Gly Phe Phe Leu	
20 25 30	

cga atc cac cca gat ggg cga gta gat ggg gta cga gaa aaa tcc gat	144
Arg Ile His Pro Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp	
35 40 45	

cca cac atc aaa cta caa cta caa gcc gaa gaa cga ggg gta gta tcc	192
Pro His Ile Lys Leu Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser	
50 55 60	

atc aaa ggg gta tgt gcc aac cga tat cta gcc atg aaa gaa gat ggg	240
Ile Lys Gly Val Cys Ala Asn Arg Tyr Leu Ala Met Lys Glu Asp Gly	
65 70 75 80	

cga cta cta gcc tcc aaa tgt gta acc gat gaa tgt ttc ttc ttc gaa	288
Arg Leu Leu Ala Ser Lys Cys Val Thr Asp Glu Cys Phe Phe Phe Glu	
85 90 95	

cga cta gaa tcc aac aac tat aac acc tat cga tcc cga aaa tat tcc	336
Arg Leu Glu Ser Asn Asn Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Ser	

100 105 110

tcc tgg tat gta gcc cta aaa cga acc ggg caa tat aaa cta ggg cca 384
 Ser Trp Tyr Val Ala Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly Pro
 115 120 125

aaa acc ggg cca ggg caa aaa gcc atc cta ttc cta cca atg tcc gcc 432
 Lys Thr Gly Pro Gly Gln Lys Ala Ile Leu Phe Leu Pro Met Ser Ala
 130 135 140

aaa tcc taa 441
 Lys Ser *
 145

<210> 2
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 <212> PRT
 <213> Bos taurus

<400> 2

Pro Ala Leu Pro Glu Asp Gly Gly Ser Gly Ala Phe Pro Pro Gly His
 1 5 10 15
 Phe Lys Asp Pro Lys Arg Leu Tyr Cys Lys Asn Gly Gly Phe Phe Leu
 20 25 30
 Arg Ile His Pro Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp
 35 40 45
 Pro His Ile Lys Leu Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser
 50 55 60
 Ile Lys Gly Val Cys Ala Asn Arg Tyr Leu Ala Met Lys Glu Asp Gly
 65 70 75 80
 Arg Leu Leu Ala Ser Lys Cys Val Thr Asp Glu Cys Phe Phe Phe Glu
 85 90 95
 Arg Leu Glu Ser Asn Asn Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Ser
 100 105 110
 Ser Trp Tyr Val Ala Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly Pro
 115 120 125
 Lys Thr Gly Pro Gly Gln Lys Ala Ile Leu Phe Leu Pro Met Ser Ala
 130 135 140
 Lys Ser
 145

<210> 3
 <211> 441
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)...(441)

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 Pro Ala Leu Pro Glu Asp Gly Gly Ser Gly Ala Phe Pro Pro Gly His
 1 5 10 15

ttc aag gac ccc aag cgg ctg tac tgc aaa aac ggg ggc ttc ttc ctg 96

Table 1. (continued)	
Variable	Mean
Age (years)	40.0
Sex	
Male	100
Female	0
Marital status	
Married	100
Single	0
Education (years)	12.0
Occupation	
Managerial	100
Professional	0
Technical	0
Semi-technical	0
Unskilled	0
Other	0
Religion	
Hindu	100
Muslim	0
Christian	0
Other	0
Income (Rs. per month)	1000
Health status	
Good	100
Poor	0
Smoking status	
Smoker	100
Non-smoker	0
Alcohol consumption	
Regular	100
Occasional	0
Never	0
Exercise (times per week)	0
Stress level	
High	100
Low	0
Family size	3.0
Number of children	2.0
Number of siblings	2.0
Number of parents	2.0
Number of grandparents	2.0
Number of great-grandparents	2.0
Number of other relatives	2.0
Number of friends	2.0
Number of acquaintances	2.0
Number of neighbors	2.0
Number of community members	2.0
Number of country members	2.0
Number of world members	2.0
Number of universe members	2.0
Number of galaxy members	2.0
Number of solar system members	2.0
Number of planet members	2.0
Number of moon members	2.0
Number of asteroid members	2.0
Number of comet members	2.0
Number of meteor members	2.0
Number of meteorite members	2.0
Number of space debris members	2.0
Number of satellite members	2.0
Number of rocket members	2.0
Number of spacecraft members	2.0
Number of space station members	2.0
Number of space shuttle members	2.0
Number of space probe members	2.0
Number of space lander members	2.0
Number of space rover members	2.0
Number of space module members	2.0
Number of space habitat members	2.0
Number of space colony members	2.0
Number of space city members	2.0
Number of space country members	2.0
Number of space world members	2.0
Number of space universe members	2.0
Number of space galaxy members	2.0
Number of space solar system members	2.0
Number of space planet members	2.0
Number of space moon members	2.0
Number of space asteroid members	2.0
Number of space comet members	2.0
Number of space meteor members	2.0
Number of space meteorite members	2.0
Number of space debris members	2.0
Number of space satellite members	2.0
Number of space rocket members	2.0
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Number of space habitat members	2.0
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Number of space module members	2.0
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Number of space galaxy members	2.0
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Number of space asteroid members	2.0
Number of space comet members	2.0
Number of space meteor members	2.0
Number of space meteorite members	2.0
Number of space debris members	2.0
Number of space satellite members	2.0
Number of space rocket members	2.0
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Number of space country members	2.0
Number of space world members	2.0
Number of space universe members	2.0
Number of space galaxy members	2.0
Number of space solar system members	2.0
Number of space planet members	2.0
Number of space moon members	2.0
Number of space asteroid members	2.0
Number of space comet members	2.0
Number of space meteor members	2.0
Number of space meteorite members	2.0
Number of space debris members	2.0
Number of space satellite members	

Met	Ala	Ala	Gly	Ser	Ile	Thr	Thr	Leu	Pro	Ala	Leu	Pro	Glu	Asp	Gly
1				5					10					15	
Gly	Ser	Gly	Ala	Phe	Pro	Pro	Gly	His	Phe	Lys	Asp	Pro	Lys	Arg	Leu
			20					25					30		
Tyr	Cys	Lys	Asn	Gly	Gly	Phe	Phe	Leu	Arg	Ile	His	Pro	Asp	Gly	Arg
		35					40					45			
Val	Asp	Gly	Val	Arg	Glu	Lys	Ser	Asp	Pro	His	Ile	Lys	Leu	Gln	Leu
	50					55					60				
Gln	Ala	Glu	Glu	Arg	Gly	Val	Val	Ser	Ile	Lys	Gly	Val	Cys	Ala	Asn
65					70					75					80
Arg	Tyr	Leu	Ala	Met	Lys	Glu	Asp	Gly	Arg	Leu	Leu	Ala	Ser	Lys	Cys
				85					90					95	
Val	Thr	Asp	Glu	Cys	Phe	Phe	Phe	Glu	Arg	Leu	Glu	Ser	Asn	Asn	Tyr
		100						105					110		
Asn	Thr	Tyr	Arg	Ser	Arg	Lys	Tyr	Ser	Ser	Trp	Tyr	Val	Ala	Leu	Lys
		115					120					125			
Arg	Thr	Gly	Gln	Tyr	Lys	Leu	Gly	Pro	Lys	Thr	Gly	Pro	Gly	Gln	Lys
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Ala	Ile	Leu	Phe	Leu	Pro	Met	Ser	Ala	Lys	Ser					
145					150					155					

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<221> CDS
<222> (1) ... (468)
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Arg	Tyr	Leu	Ala	Met	Lys	Glu	Asp	Gly	Arg	Leu	Leu	Ala	Ser	Lys	Cys	
				85					90					95		
gtt	acg	gat	gag	tgt	ttc	ttt	ttt	gaa	cga	ttg	gaa	tct	aat	aac	tac	336
Val	Thr	Asp	Glu	Cys	Phe	Phe	Phe	Glu	Arg	Leu	Glu	Ser	Asn	Asn	Tyr	
			100					105					110			
aat	act	tac	cgg	tca	agg	aaa	tac	acc	agt	tgg	tat	gtg	gca	ctg	aaa	384
Asn	Thr	Tyr	Arg	Ser	Arg	Lys	Tyr	Thr	Ser	Trp	Tyr	Val	Ala	Leu	Lys	
			115				120					125				
cga	act	ggg	cag	tat	aaa	ctt	gga	tcc	aaa	aca	gga	cct	ggg	cag	aaa	432
Arg	Thr	Gly	Gln	Tyr	Lys	Leu	Gly	Ser	Lys	Thr	Gly	Pro	Gly	Gln	Lys	
			130			135					140					
gct	ata	ctt	ttt	ctt	cca	atg	tct	gct	aag	agc	tga	ttttaa				474
Ala	Ile	Leu	Phe	Leu	Pro	Met	Ser	Ala	Lys	Ser	*					
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Met	Ala	Ala	Gly	Ser	Ile	Thr	Thr	Leu	Pro	Ala	Leu	Pro	Glu	Asp	Gly	
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Gly	Ser	Gly	Ala	Phe	Pro	Pro	Gly	His	Phe	Lys	Asp	Pro	Lys	Arg	Leu	
			20					25					30			
Tyr	Cys	Lys	Asn	Gly	Gly	Phe	Phe	Leu	Arg	Ile	His	Pro	Asp	Gly	Arg	
		35				40						45				
Val	Asp	Gly	Val	Arg	Glu	Lys	Ser	Asp	Pro	His	Ile	Lys	Leu	Gln	Leu	
	50					55					60					
Gln	Ala	Glu	Glu	Arg	Gly	Val	Val	Ser	Ile	Lys	Gly	Val	Cys	Ala	Asn	
65					70					75					80	
Arg	Tyr	Leu	Ala	Met	Lys	Glu	Asp	Gly	Arg	Leu	Leu	Ala	Ser	Lys	Cys	
				85				90						95		
Val	Thr	Asp	Glu	Cys	Phe	Phe	Phe	Glu	Arg	Leu	Glu	Ser	Asn	Asn	Tyr	
			100					105					110			
Asn	Thr	Tyr	Arg	Ser	Arg	Lys	Tyr	Thr	Ser	Trp	Tyr	Val	Ala	Leu	Lys	
			115				120					125				
Arg	Thr	Gly	Gln	Tyr	Lys	Leu	Gly	Ser	Lys	Thr	Gly	Pro	Gly	Gln	Lys	
		130				135					140					
Ala	Ile	Leu	Phe	Leu	Pro	Met	Ser	Ala	Lys	Ser						
145					150					155						

<210> 9
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 <213> Bos taurus

<400> 9								
Met	Ala	Ala	Gly	Ser	Ile	Thr	Thr	Leu
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